STAR ROAMER®

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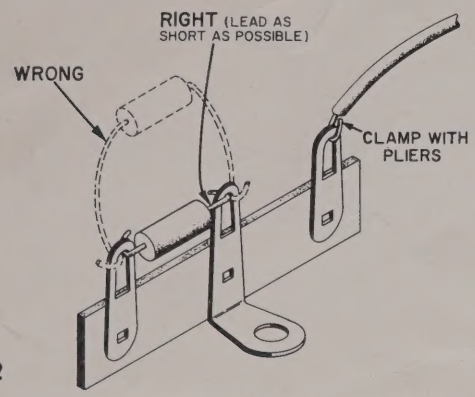
SPECIFICATIONS

FREQUENCY RANGE:	BAND 1 200 to 400KC. BAND 2 550 to 1800KC. BAND 3 1.8 to 4.8MC. BAND 4 4.8 to 12MC. BAND 5 12 to 30MC.
BANDSPREAD:	Electrical, calibrated 0 to 100.
SENSITIVITY:	10 μv for 10 db S/N
IF FREQUENCY:	455KC
IF BANDWIDTH:	8KC at 6 db down.
BEAT FREQUENCY:	Varies from zero to 5KC.
ANTENNA INPUT	Unbalanced, 300Ω nominal.
ANL:	Switchable series diode.
POWER SUPPLY	Fused, transformer operated.
POWER REQUIREMENTS:	110 to 130 V, 60 cps, 15 watts.
SPEAKER SIZE:	4″ PM.
HEADPHONE OUTPUT:	High impedance, magnetic or crystal.
TUBE COMPLEMENT:	1—6BE6 (converter) 1—6HR6 (IF amplifier) 1—12AX7 (audio amplifier) 1—6AK6 or 6AR5 (audio output)
DIMENSIONS:	Height, 5½″; width, 12½″; depth, 8″. (With legs and knobs)



HOW TO MOUNT A WIRE AND A COMPONENT

CONSTRUCTION HINTS

The step-by-step instructions must be followed exactly. Occasionally, several parts are mounted with the same hardware, so be sure to read the entire step. For your convenience, a box is provided to check off each step after you have completed it.

Make good mechanical connections at solder points, clean metal to clean metal. Loop wires around connection terminals and clamp tightly. To mount a resistor or capacitor, pull the leads through the terminals so the part is tightly mounted. Bend each lead around the terminal and cut off the excess wire.

Several types of wire are supplied. It is important to use the correct type called for in the building step. Insulated solid and shielded wire, identified by color, has been cut to length and pre-stripped for your convenience. Use only the color given in the step.

Flexible tubing is used to cover bare wire of leads where there is a possibility they may touch other bare wires or the chassis. BARE WIRES AND BARE LEADS NOT CONNECTED TO THE SAME TERMINAL MUST NOT ACCIDENTLY TOUCH EACH OTHER OR THE CHASSIS. The only tools needed to build your STAR ROAMER are a soldering iron or gun rated at about 40 to 100 watts, long-nose pliers, diagonal cutters, and a screwdriver.

This book uses some symbols to give the value of components. "Ω" means ohm, "K" means one thousand ohms, "meg" means one million ohms, μf means microfarad and $\mu\mu$f means micromicrofarad. Capacitor markings may be μf or MF for microfarad; $\mu\mu$f or MMF for micromicrofarad.

IMPORTANT NOTICE: Since your receiver is designed to tune in radio frequency signals from 200 KC all the way up to 30 MC, **it is extremely important that you keep all leads as short as possible and all wires pressed down near the chassis.**

We can not overemphasize this point. KEEP ALL LEADS AS SHORT AS POSSIBLE AND DOWN NEAR THE CHASSIS. The efficiency of operation and reception of your receiver depends on this. Cut off any excess wire ends.

When you wire capacitors or resistors into the circuit, clip the leads to a length sufficient to reach between the two terminals. **Never use more lead length on parts than is required.**

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Please note the followings:

Page 10, Column 2, Step 3 and 4

If you find an oscillation in the output after building a kit, please reverse the connections of blue and red leads from T-3 transformer.

Page 6, Step 9 and Page 8, Step 2

If 3/8" lockwasher would not fit on the bushing of R-4 and R-11, please use 3/8" flatwasher instead.

Page 16, Column 2, Step 15

R-19 resistor you have may be 1K ohm 2W instead of 1W, if so, use 2W as R-19.

Page 26, Column 2, Alignment Notes:

Please note "image signal" should be always 910KC above the frequency that the receiver is tuned to, so please correct the words "below" to "above" in this step.

MANUAL CORRECTION

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Before starting to build your kit, please make the following corrections in your manual:

Page 10, Column 1, Step 1

C-2 tuning gang you have may not be attached with large drive pulley, if so, please attach the large drive pulley on the tuning shaft in the following manner:

Rotate the shaft of tuning gang counter clockwise until the plates are fully meshed and position the plates of the capacitor openning away from you as shown in Figure 16.

Then put the large pulley on the tuning shaft with lip upward as shown in Figure 21 and fasten the pulley to the tuning shaft with two screws supplied.

Position the notch on the pulley at about 2:00 o'clock as shown in Figure 21.